

Title (en)

MULTI-MODAL GAIT-BASED NON-INVASIVE THERAPY PLATFORM

Title (de)

MULTIMODALE GANGBASIERTE NICHTINVASIVE THERAPIEPLATTFORM

Title (fr)

PLATE-FORME DE THÉRAPIE NON-INVASIVE BASÉE SUR UNE DÉMARCHE MULTIMODALE

Publication

EP 3079642 A4 20171101 (EN)

Application

EP 14869433 A 20141031

Priority

- US 201361915834 P 20131213
- US 2014063487 W 20141031

Abstract (en)

[origin: US2015165265A1] Apparatus and associated methods relate to a knee-position control system having a knee engagement pad, a lower-leg control member and an upper-leg control member, the knee engagement pad configured to naturally position a user's knee in response to movement of a foot-rest of a natural-gait therapy system. In an illustrative embodiment, the upper-leg control member may pivot about a point substantially axially coincident with a user's hip. In some embodiments, the upper-leg control member may be pivotally coupled to the lower-leg control member at a pivot point substantially axially coincident with a user's knee. The lower-leg control member may be pivotally coupled to the foot rest at a pivot point substantially axially coincident with a user's ankle. The knee-position control system may advantageously position a user's knee in a natural position relative to both the user's ankle and the user's hip, in response to movement of the user's foot.

IPC 8 full level

A61H 1/02 (2006.01); **A61H 1/00** (2006.01); **A61H 3/00** (2006.01); **A63B 22/00** (2006.01); **A63B 22/02** (2006.01); **A63B 22/06** (2006.01); **A63B 22/20** (2006.01); **A63B 23/035** (2006.01); **A63B 71/00** (2006.01)

CPC (source: EP US)

A61G 5/14 (2013.01 - EP US); **A61H 1/024** (2013.01 - EP US); **A61H 1/0262** (2013.01 - EP US); **A61H 1/0266** (2013.01 - EP US); **A61H 3/008** (2013.01 - EP US); **A61N 1/36003** (2013.01 - EP US); **A63B 21/00185** (2013.01 - EP US); **A63B 21/068** (2013.01 - EP US); **A63B 21/157** (2013.01 - EP US); **A63B 22/0002** (2013.01 - US); **A63B 22/0005** (2015.10 - EP US); **A63B 22/02** (2013.01 - US); **A63B 22/0605** (2013.01 - EP US); **A63B 22/0664** (2013.01 - US); **A63B 23/03566** (2013.01 - US); **A63B 69/0057** (2013.01 - EP US); **A63B 69/0062** (2020.08 - EP); **A63B 71/0009** (2013.01 - US); **A61H 1/005** (2013.01 - US); **A61H 1/0237** (2013.01 - US); **A61H 3/00** (2013.01 - US); **A61H 2003/005** (2013.01 - US); **A61H 2201/0192** (2013.01 - EP US); **A61H 2201/10** (2013.01 - EP US); **A61H 2201/1215** (2013.01 - EP US); **A61H 2201/1436** (2013.01 - EP US); **A61H 2201/163** (2013.01 - EP US); **A61H 2201/1633** (2013.01 - EP US); **A61H 2201/1642** (2013.01 - EP US); **A61H 2201/1676** (2013.01 - EP US); **A61H 2201/501** (2013.01 - EP US); **A61H 2201/5012** (2013.01 - EP US); **A61H 2201/5043** (2013.01 - EP US); **A61H 2201/5097** (2013.01 - EP US); **A63B 21/151** (2013.01 - EP US); **A63B 22/0048** (2013.01 - EP US); **A63B 22/0292** (2015.10 - EP US); **A63B 22/203** (2013.01 - EP US); **A63B 24/0087** (2013.01 - EP US); **A63B 69/0062** (2020.08 - US); **A63B 69/0064** (2013.01 - EP US); **A63B 71/0619** (2013.01 - EP US); **A63B 2022/0676** (2013.01 - US); **A63B 2071/0018** (2013.01 - EP US); **A63B 2208/0204** (2013.01 - US); **A63B 2208/0233** (2013.01 - US); **A63B 2220/52** (2013.01 - EP US); **A63B 2225/093** (2013.01 - EP US); **A63B 2225/50** (2013.01 - EP US)

Citation (search report)

- [X] US 2010270771 A1 20101028 - KOBAYASHI HIROSHI [JP], et al
- [X] US 7163492 B1 20070116 - SOTIRIADES ALEKO D [US]
- [X] US 2006097557 A1 20060511 - THOLKES ALAN L [US], et al
- See references of WO 2015088668A1

Cited by

US11883714B2; US10881572B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

US 2015165265 A1 20150618; US 9616282 B2 20170411; AU 2014361932 A1 20160714; AU 2014361932 B2 20190131; CA 2938531 A1 20150618; EP 3079642 A1 20161019; EP 3079642 A4 20171101; WO 2015088668 A1 20150618

DOCDB simple family (application)

US 201414529568 A 20141031; AU 2014361932 A 20141031; CA 2938531 A 20141031; EP 14869433 A 20141031; US 2014063487 W 20141031